



SHELTON BOARD OF EDUCATION

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Dear Students and Guardian(s),

According to research, students lose about 2.6 months of learning in mathematics over the summer. This phenomenon, also known as summer slide, can cause students to start the new academic year with a lower achievement level than where they left off at the closure of the prior year. Most importantly, researchers identify long-lasting effects from summer loss related to lower self-confidence, as well as success in school and college.

The Shelton Public School System has developed a Summer Math Challenge that can easily integrate into your summer plans. The program is designed to be developmentally appropriate for your student based on the grade level they will be entering for the 2019-2020 school year. We recommend scheduling time for your learner(s) to participate in this program.

The importance of spending time with family and enjoying the outdoors also provides valuable learning opportunities. Involvement in authentic experiences allow learners for knowledge transfer beyond the classroom and vice versa. Many daily scenarios provide opportunities for problem solving and reasoning, such as estimating time and cost of travel, doubling ingredients in family recipes, planning and budgeting for home projects, probability in sports and playing board games.

Specific Grade Summer Math Challenge for students in grades K-12, can be found at www.sheltonpublicschools.org under the Teaching and Learning tab.

We hope that you will participate in this year's summer math challenge and help our learners in maintaining and improving their math skills, as well as further develop their confidence in math during the summer.

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Geometry: Summer Learning Packet

We want to welcome you to geometry for the 2019-2020 school year. As you enjoy some time off this summer, we also want to ensure you are exercising the math portion of your brain! Below you will find a list of topics that you must review prior to the start of the new school year. The topics are divided by weeks to help you manage your time and workload. However, if you are in need to change the dates of any of the topics you have the flexibility to complete the work in your own timeframe.

Sincerely, The Geometry math team

Directions:

Complete the following IXL sets by logging into your IXL account. Please be sure to login so that your teacher can see the completed work. You must get an 80% and complete at least 10 questions. If you do not get an 80% please, continue to work on problems until you reach the goal.

All topics are from Geometry on IXL.com

| Week #1: | Completed? |
|--|------------|
| A.1 Ratios and proportions | |
| A.3 Properties of exponents | |
| Week #2 | |
| A.4 Simplify radical expressions | |
| A.6 Solve linear equations | |
| Week #3 | |
| A.8 Solve systems of linear equations | |
| A.9 Solve a quadratic equation by factoring | |
| Week #4 | |
| A.10 Solve a quadratic equation using the quadratic formula | |
| Week #5 | |
| S.3 Area of parallelograms and triangles | |
| S.4 Area of trapezoids | |
| Week #6 | |
| Q.1 Pythagorean Theorem | |
| Q.2 Converse of the Pythagorean theorem | |